

**BULK SPECIFIC GRAVITY  
OF  
COMPACTED BITUMINOUS MIXTURES  
USING  
PARAFFIN-COATED SPECIMENS  
AASHTO T 275  
(METHOD A)**

**APPARATUS**

- [ ] Balance
  - [ ] Suspension apparatus from center of balance pan
  - [ ] Suspension wire of smallest practical size
  - [ ] Holder and sample completely immersed
- [ ] Water Bath
  - [ ] Equipped with overflow outlet to maintain constant water level
  - [ ] Deep enough to completely immerse holder and sample
  - [ ] Water is  $77 \pm 2^{\circ}\text{F}$
  - [ ] Paraffin (Specific Gravity known)
- [ ] Room temperature is  $77 \pm 2^{\circ}\text{F}$

**PROCEDURE**

- [ ] Specimen dried overnight at  $125 \pm 5^{\circ}\text{F}$  and weighed at 2-hour drying intervals until constant weight (Note 1) is achieved (not necessary for recently molded specimens)
- [ ] Specimen cooled to room temperature at  $77 \pm 9^{\circ}\text{F}$  and weighed
- [ ] Specimen coated on all surfaces with melted paraffin sufficiently thick to seal all voids
- [ ] Specimen allowed to cool in air to room temperature at  $77 \pm 9^{\circ}\text{F}$  for 30 minutes
- [ ] Specimen weighed
- [ ] Specimen immersed in water at  $77 \pm 2^{\circ}\text{F}$  and weight recorded

Note 1 -- Constant weight is defined as the weight at which further drying at  $125 \pm 5^{\circ}\text{F}$  does not alter the weight by more than 0.05 percent.

[ ] Bulk specific gravity is calculated correctly to three decimal places as follows:

$$\text{Bulk Specific Gravity} = \frac{A}{D-E - \frac{(D-A)}{F}}$$

where:

A = weight in grams of dry specimen in air

D = weight in grams of dry specimen plus paraffin

E = weight in grams of dry specimen plus paraffin in water

F = specific gravity of paraffin at  $77 \pm 2^{\circ}\text{F}$  (use 0.9)

NA - Not Applicable

X - Requires Corrective Action

√ - Satisfactory

\_\_\_\_\_  
Acceptance Technician

\_\_\_\_\_  
INDOT

\_\_\_\_\_  
Date

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_